




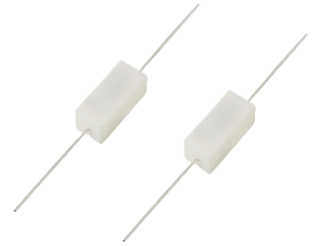
<b>SPECIFICATION SHEET NO.</b>	S0402 - SQP2W10RJL0001	
<b>ORIGINAL MFG/PART NO.</b>	Aillen Capacitors/SQP2W10RJ	
<b>NEXTGEN PART CODE</b>	SQP2W10RJL0001	Indicate This Code For <a href="#">RFQ</a> /Order
<b>DATE</b>	Apr. 2, 2025	
<b>REVISION</b>	A1	Updated With Most Recent Data
<b>DESCRIPTION AND MAIN PARBMETRICS</b>	<p>Dip Type Cement Resistors General Purpose SQP Series, Axial Terminal</p> <p>Dimension W7.0*H7.0*L18.0mm</p> <p>Power Rated Wattage 2W</p> <p>Resistance Value 10Ω</p> <p>Tolerance ± 5%</p> <p>Operating Temp. Range -55°C ~ +155°C</p> <p>Package in Bulk, 500pcs/Inner Box</p> <p>REACH/RoHS/RoHS III Compliant and Halogen Free (HF)</p>	
<b>CUSTOMER</b>		
<b>CUSTOMER PART NUMBER</b>		
<b>CROSS REF. PART NUMBER</b>		
<b>MEMO</b>		

<b>VENDOR APPROVE</b>			
Issued/Checked/Approved			
Effective Date: Apr. 2, 2025			

<b>CUSTOMER APPROVE</b>
Date:

## DESCRIPTION

A Cement Resistor Is A Heat- And Flame-Resistant Power Resistor. A Cement Resistor Can Handle The Large Amounts Of Power Flowing Through It And Is Not Damaged By Heat Or Flame. If You Are Designing A Circuit With A Large Amount Of Current Flowing Through The Resistor And It Needs To Be Resistant To Heat And Flame, Then A Cement Resistor Is A Good Design Choice. Cement Resistors Are Made Of Resistance Wire Wound On An Alkali-free Ceramic Core, Plus A Layer Of Heat-resistant, Moisture-resistant And Non-corrosive Protective Materials. The Wire Wound Resistors Are Then Placed In Square Ceramic Packages Sealed With Special Non-flammable And Heat-resistant Cement.



*Image shown is a representation only. Exact specifications should be obtained from the product dimension.*

## MAIN FEATURE

- Dip Type Cement Resistors General Purpose SQP Series, Axial Terminal
- Wide Resistance Value Range and Tolerance:  $\pm 1\%$  or  $\pm 5\%$
- Power Rated Wattage Range 2W~25W
- Very Small, Robust And Reliable
- High Temperature Stability
- Ceramic Flame Retardant Package, Sealed With Special Cement
- The Recommended Washing Method Is Alcohol
- Excellent Pulse Load Capability
- Moisture Sensitivity Level (MSL) 1
- Short Lead Time
- Cross Competitors Parts and More
- REACH/RoHS/RoHS III Compliant and Halogen Free (HF)



## APPLICATION

- Home Application, Consumer Electronics and Computer
- Power Application
- Telecommunications Equipment

## ELECTRICAL CHARBCTERISTICS

- See Page 4~ Page 5
- All Products Parameters are Subject To NextGen Components' Final Confirmation.



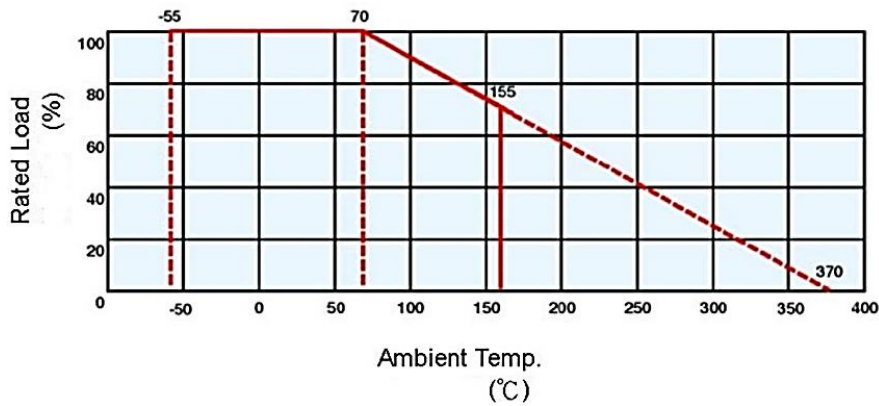






## RATED POWER

Rated power is the value of Max load wattage specified at the ambient temperature of 70°C, and shall meet the functions of electrical and mechanical performance. When the ambient temperature surpasses above mentioned temperature, the value declines as per following DERATING CURVE.



## RATED VOLTAGE

It is calculated through the following formula:

where V: rated voltage (V)

P: rated power (W)

$$V = \sqrt{P \times R}$$

R: total nominal resistance (Ω)

However, in case the voltage calculated exceeds the maximum load voltage, such the maximum load voltage shall be regarded as its rated voltage, means whichever less.





**Resistance to Soldering Heat:**

Two leads are together dipped in a melted solder of  $270 \pm 5^{\circ}\text{C}$  for  $10 \pm 1$  seconds, or  $350 \pm 10^{\circ}\text{C}$  for  $3.5 \pm 0.5$  seconds, Then remove the resistors and leaving them at room temp. for one hour. The resistance value change rate between pre-and-post test shall be within  $\pm 1\%$ .

**Nonflammability:**

The resistors are applied the power of 16 times the rated wattage for 5 min. and shall not get flame.

**Storage Conditions:**

The resistors with appropriate package would have a preservative duration of 1 year, under the following conditions.  $T=5^{\circ}\text{C} \sim 35^{\circ}\text{C}$  and  $H=40\% \sim 75\%$

**PACKAGE INFORMATION – Packed In Bulk**

PRODUCT SERIES	POWER RATED WATTAGE	QUANTITY PER INNER BOX (PCS)
SQP	2W	500
SQP	3W	-
SQP	5W	350
SQP	7W	500
SQP	10W	100
SQP	15W	100
SQP	20W	100
SQP	25W	100

## IMPORTANT NOTES AND DISCLAIMER

1. **ROHS COMPLIANCE:** The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU RoHS Directive (EU) 2015/863 EC (RoHS3). RoHS Test Report for this product can be obtained at Download Center.
2. **REACH COMPLIANCE:** REACH substances of high concern (SVHCs) information is available for this product. Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, REACH Test Report for this product can be obtained at Download Center.
3. All Product parametric performance is indicated in the Electrical Characteristics for the listed herein test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
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